



# Climate Change Preparation in Portland

Community Resilience Panel Meeting  
April 2016

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Bureau of Planning and Sustainability  
Innovation. Collaboration. Practical Solutions.

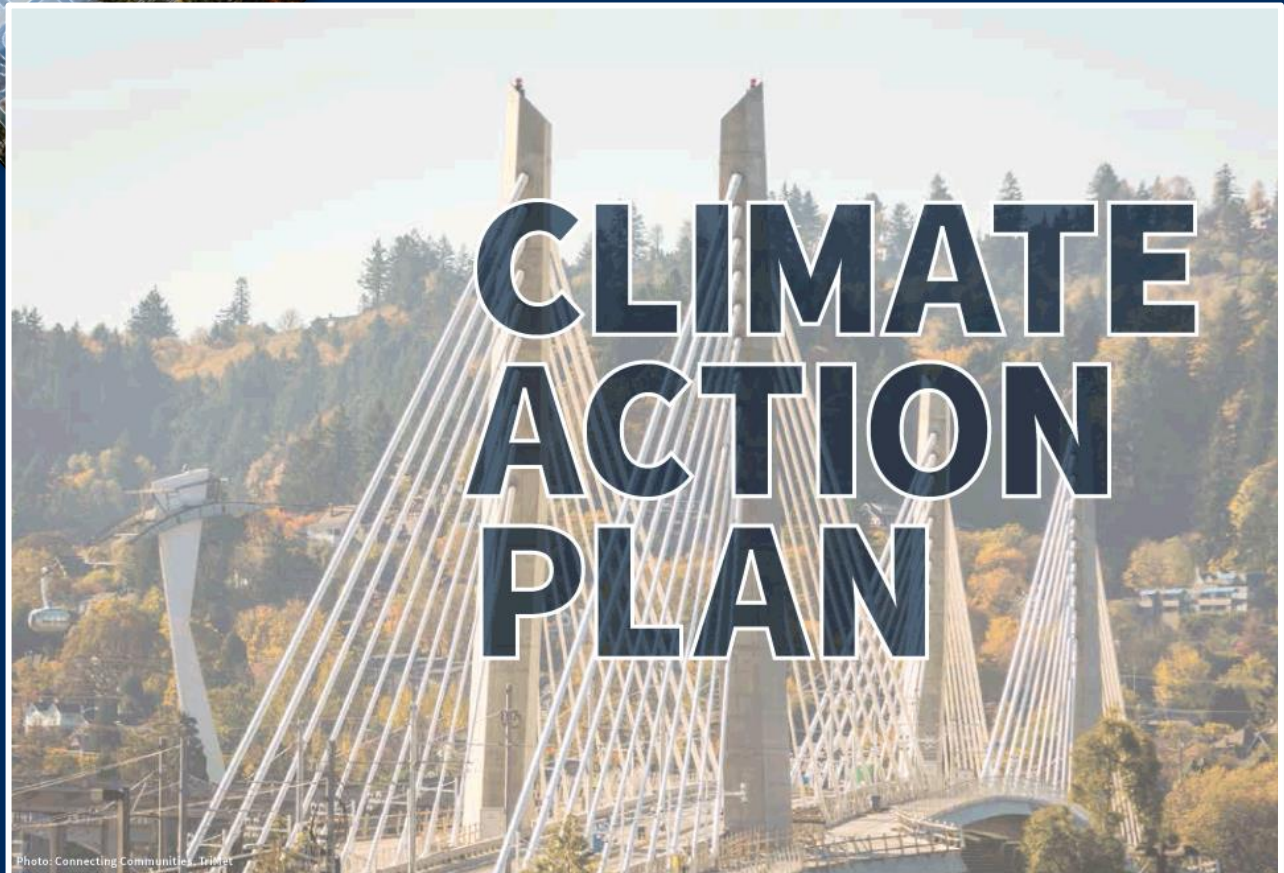


# LEGACY OF LEADERSHIP

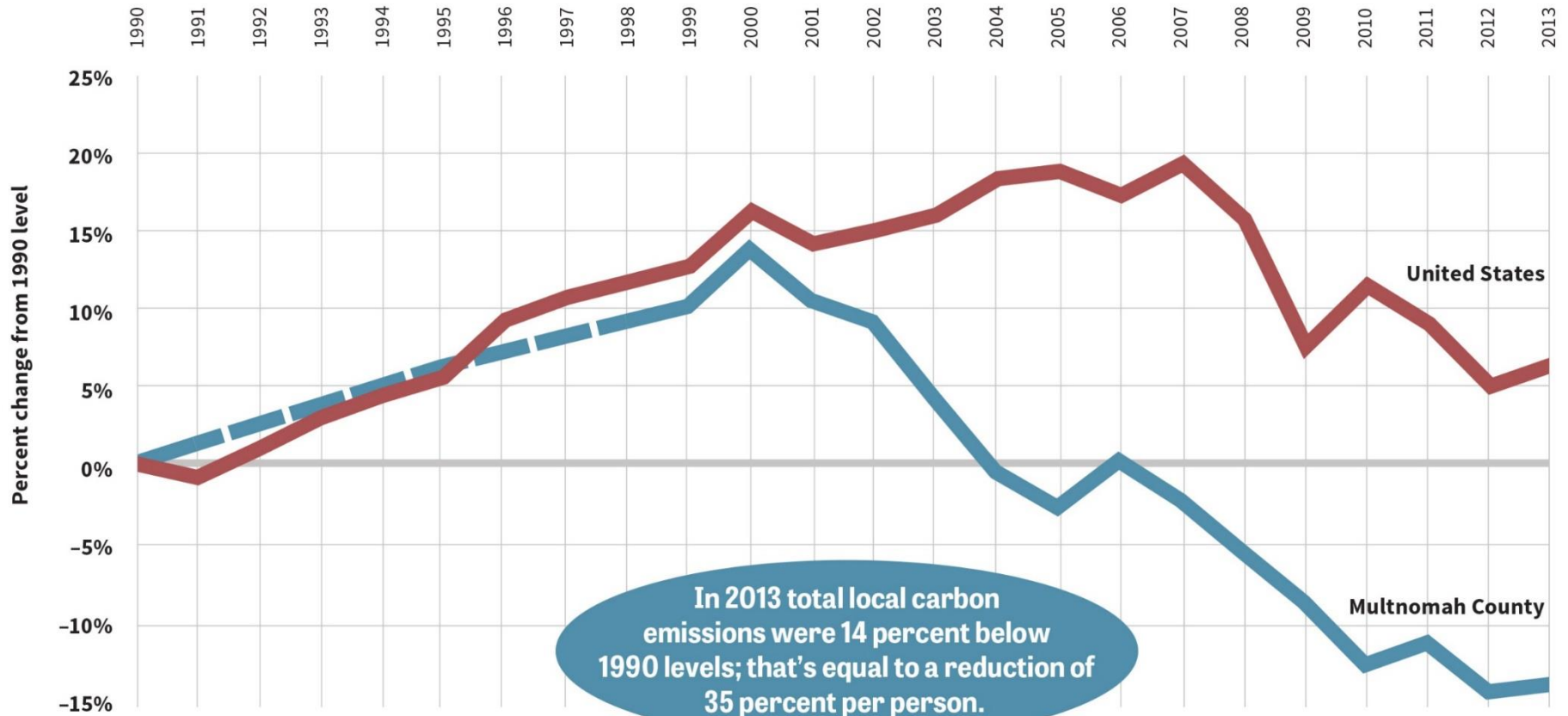


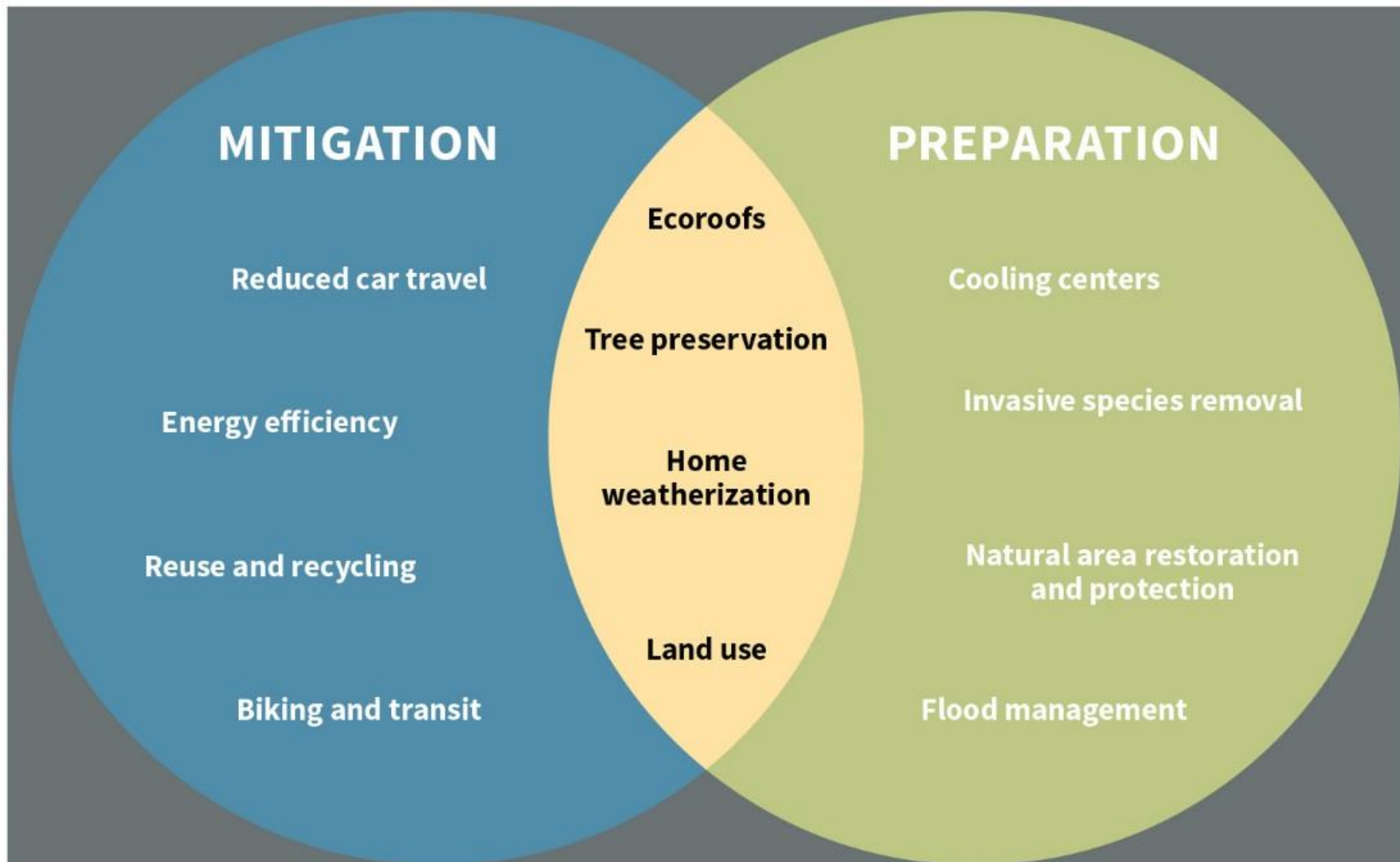


# LEGACY OF LEADERSHIP



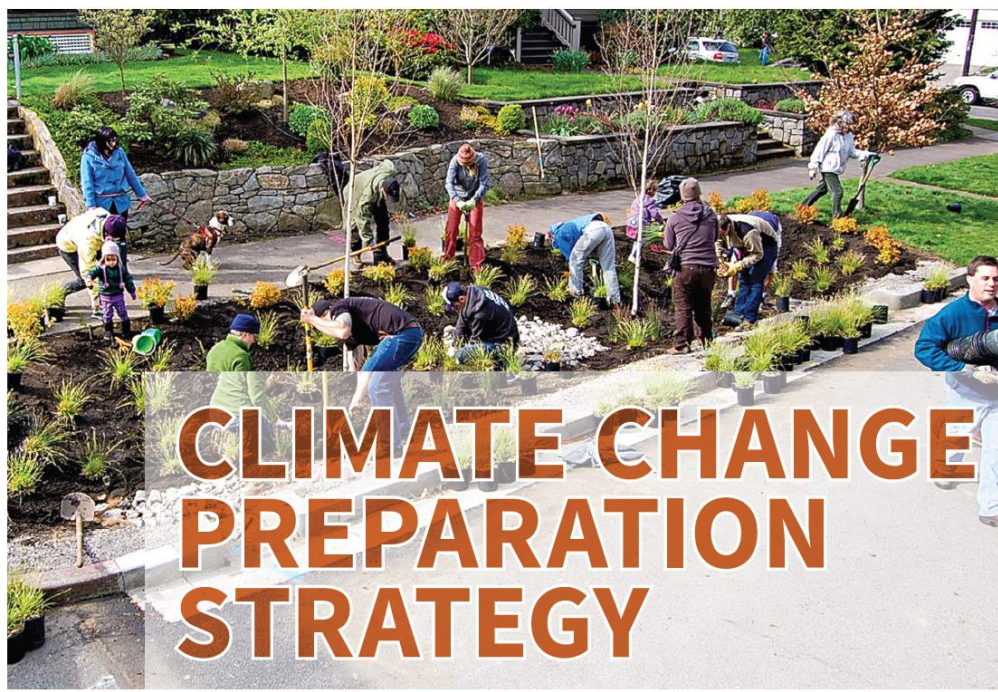
# WE'RE ON OUR WAY







# Climate Change Preparation



## CLIMATE CHANGE PREPARATION STRATEGY

PREPARING FOR LOCAL IMPACTS  
IN PORTLAND AND MULTNOMAH COUNTY | 2014



## CLIMATE CHANGE PREPARATION STRATEGY

## RISK AND VULNERABILITIES ASSESSMENT

PREPARING FOR LOCAL IMPACTS  
IN PORTLAND AND MULTNOMAH COUNTY | 2014



# Climate Change Preparation Planning

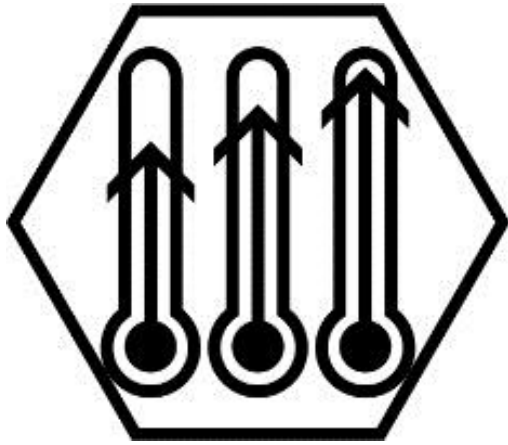
- Infrastructure and the Built Environment
- Natural Systems
- Health and Human Services



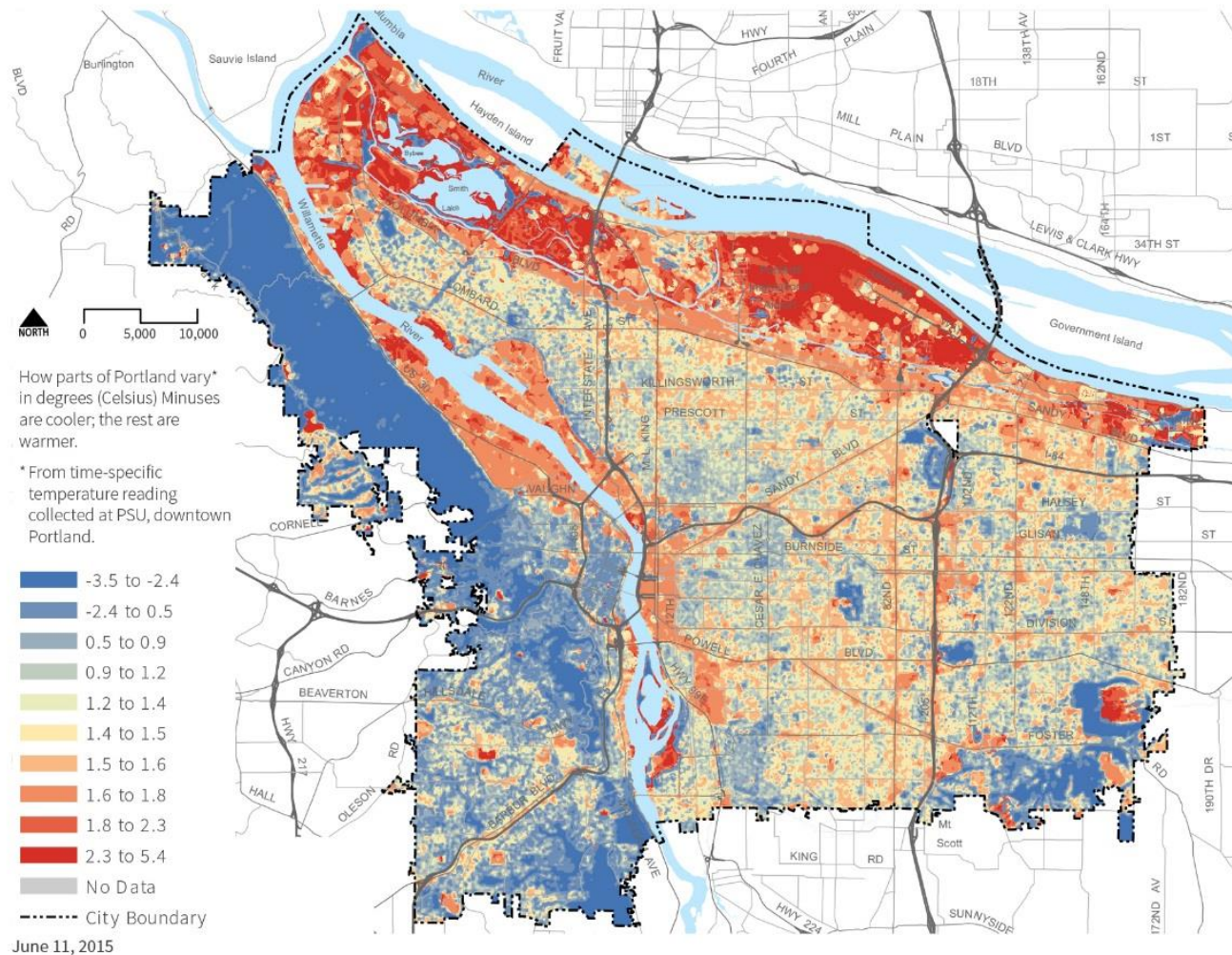


# Portland's Primary Risks

Hotter, drier summer with more high-heat days



High  
Temperatures



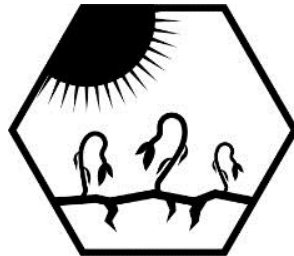


# Portland's Primary Risks

Hotter, drier summer with more high-heat days



Drought



Wildfire





# Portland's Primary Risks

Warmer winters with more intense rain events



Floods



Landslides





# Key Recommendations

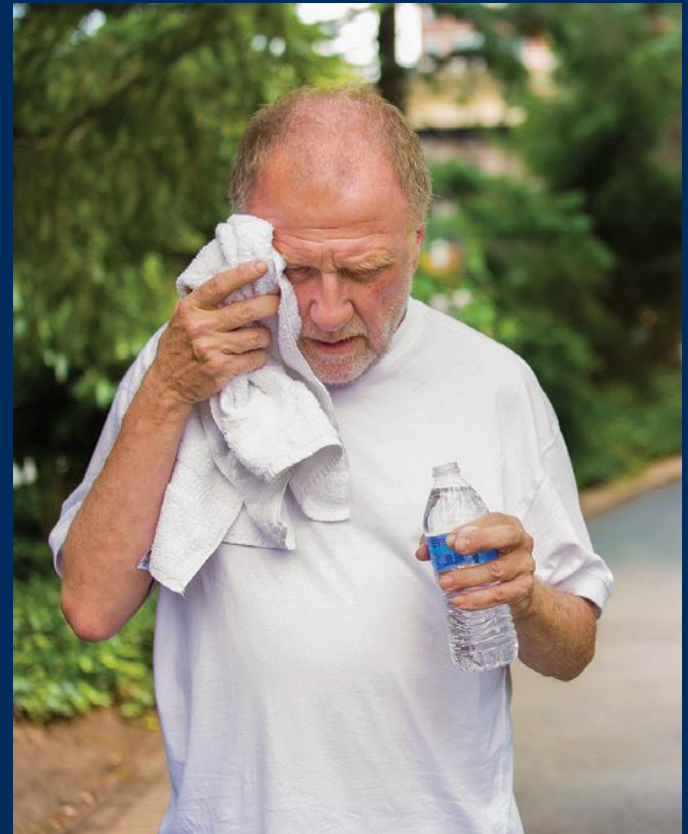
- Keep doing what we're doing





# Key Recommendations

- Get ahead of some coming impacts





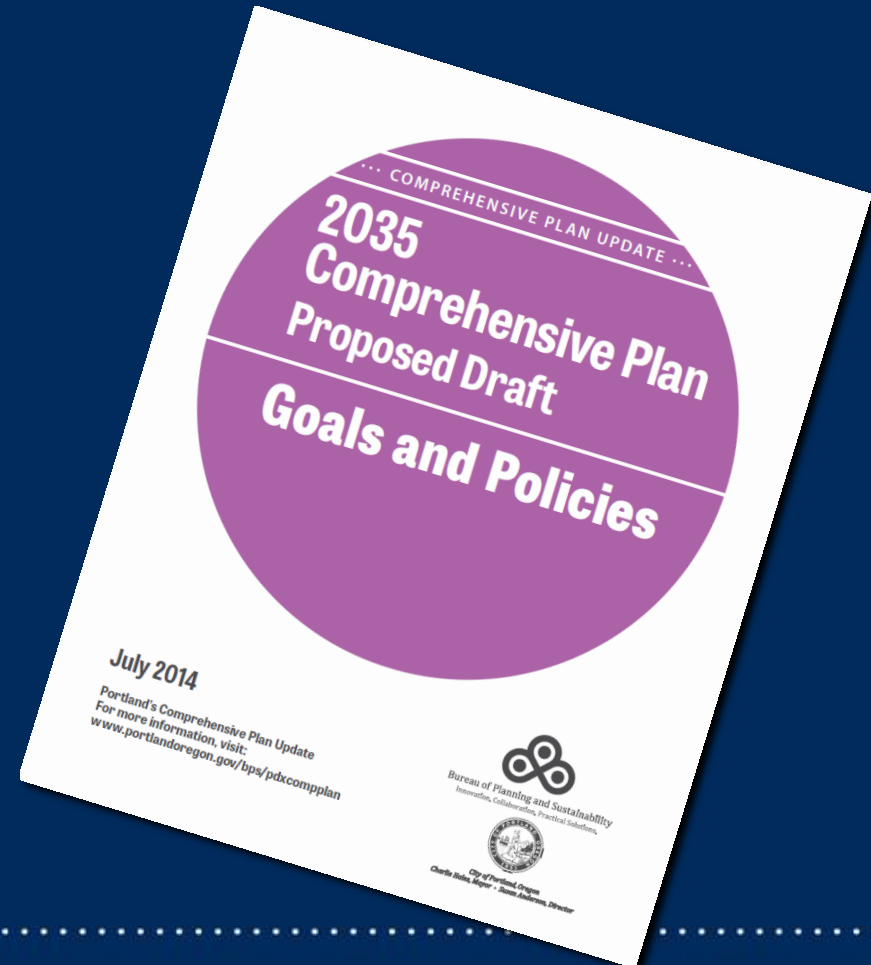
# Key Recommendations

- Monitoring and research



# Key Recommendations

- Apply climate preparedness to new arenas





# Key Recommendations

- Prioritize vulnerable communities



# Portland's Urban Heat Island

Indicator	Urban Heat
Adults over 65	✓
Youth under 18	✓
Persons below 50% Poverty Line	✓
Adults without a High School Degree	✓
Communities of Color	✓
BMI	✓
Language other than English spoken at home	✓
Adults over 65 living alone	✓
Voter turnout	✓
In-home air conditioning	✓

# Total Vulnerability

Portland, Oregon

Exposure | Sensitivity | Adaptive Capacity

Data: US Census (ACS 2013)

PSU (2014)

Metro (2014)

BPS (2015)

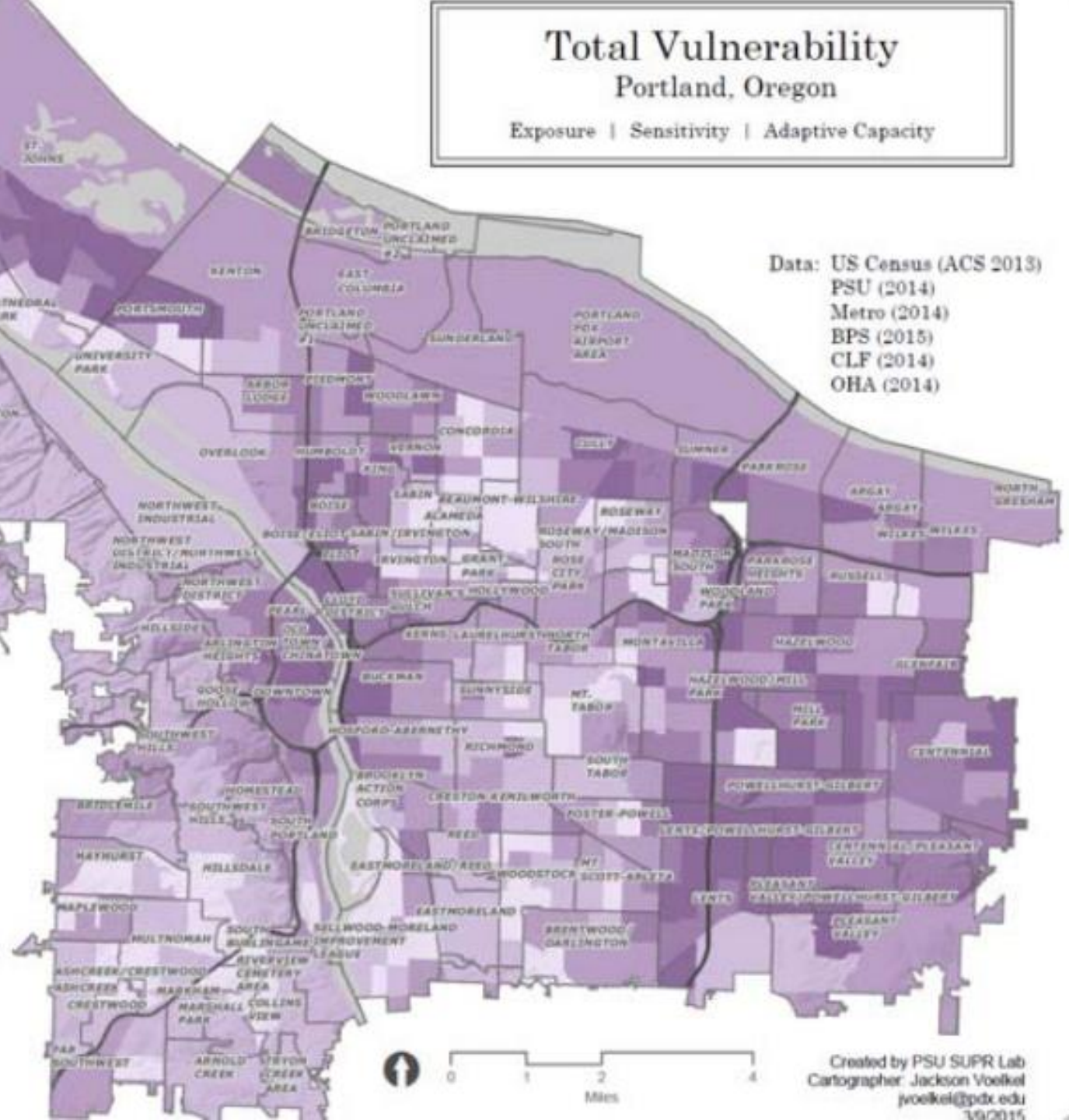
CLF (2014)

OHA (2014)

Count of Times  
Block Group is  
Classified in  
"Worst Quintile"



Major Water  
Freeway

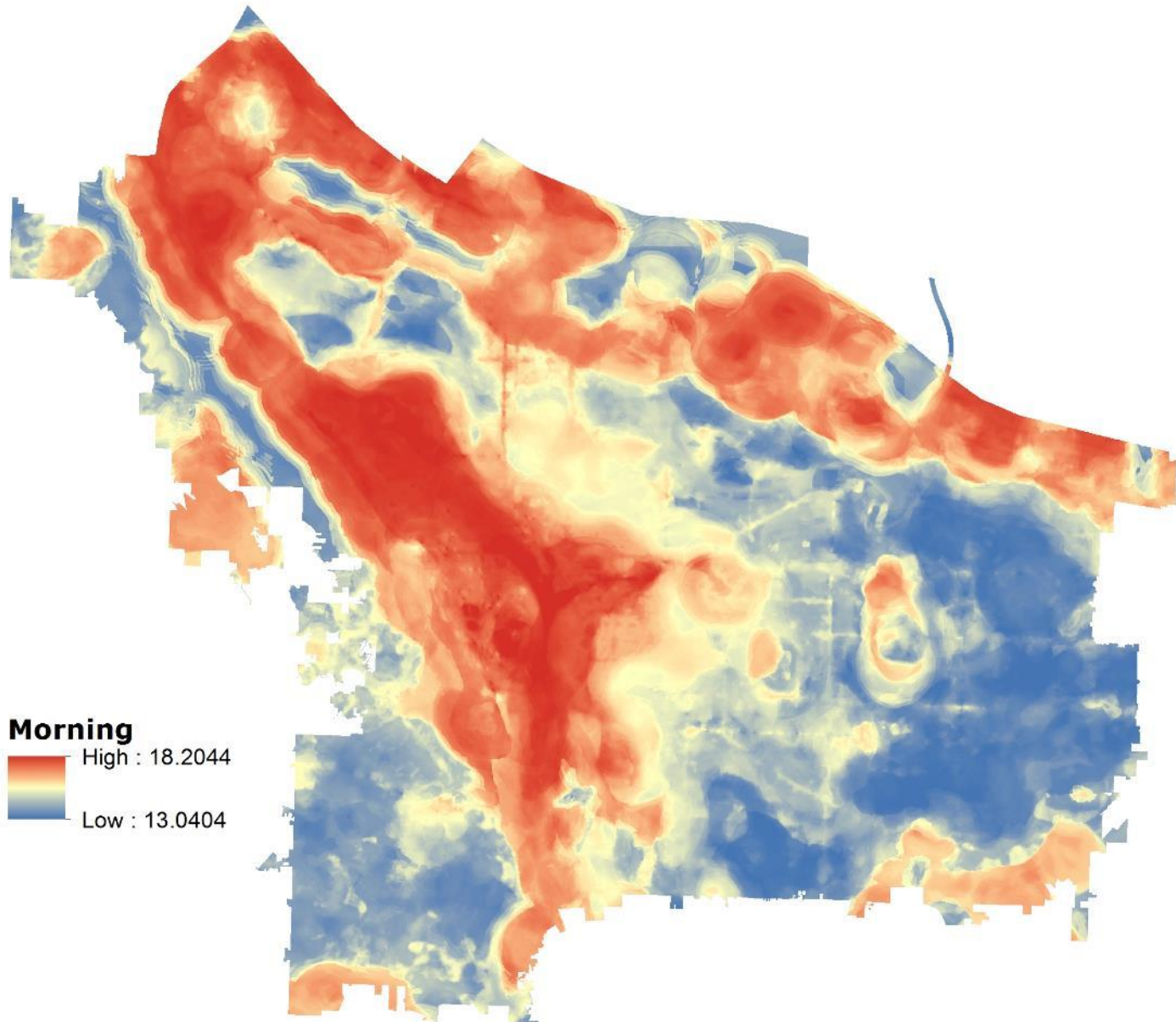


0 1 2 4  
Miles

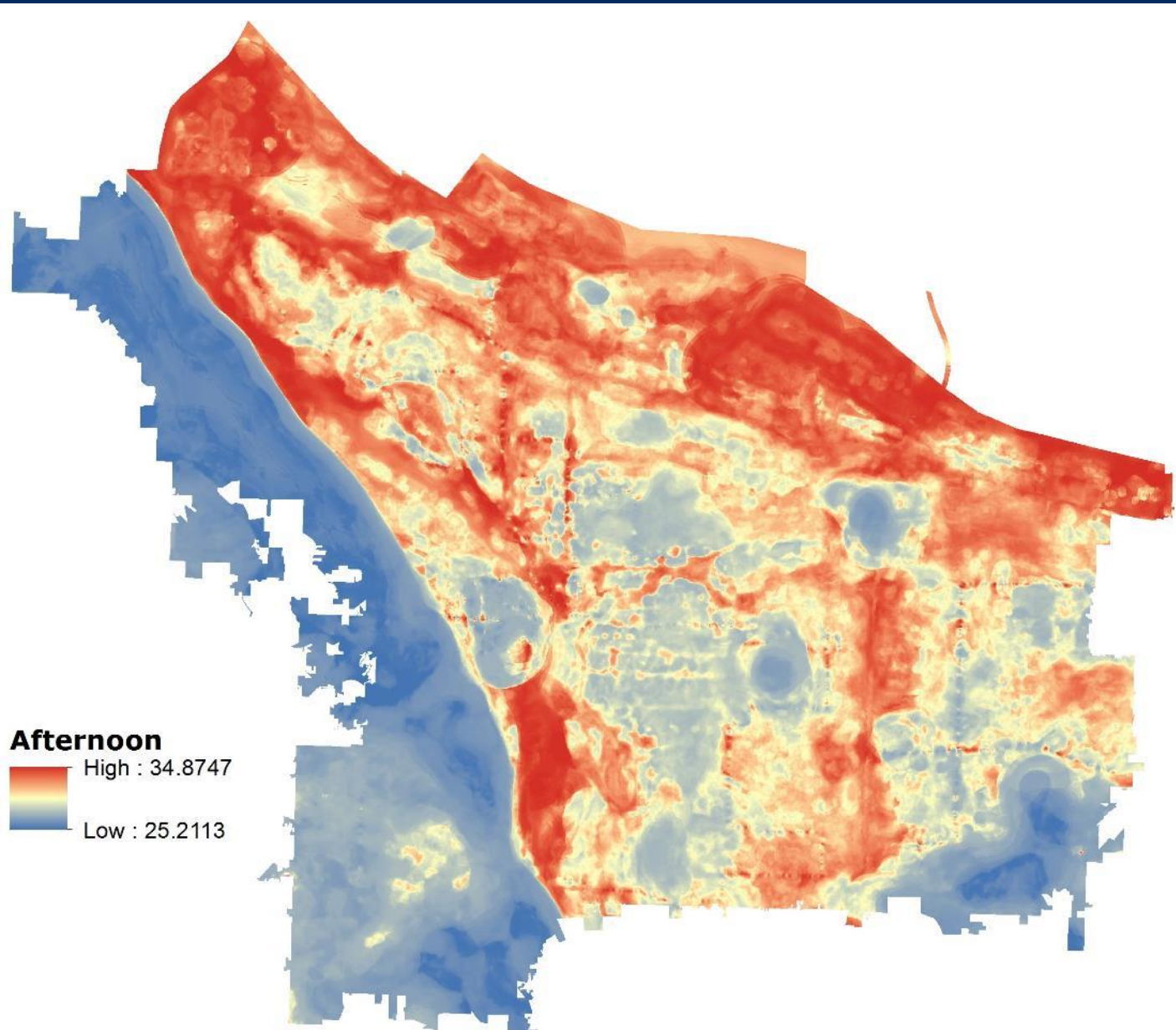
Created by PSU SUPR Lab  
Cartographer: Jackson Voelkel  
jvoelkel@pdx.edu  
3/9/2015



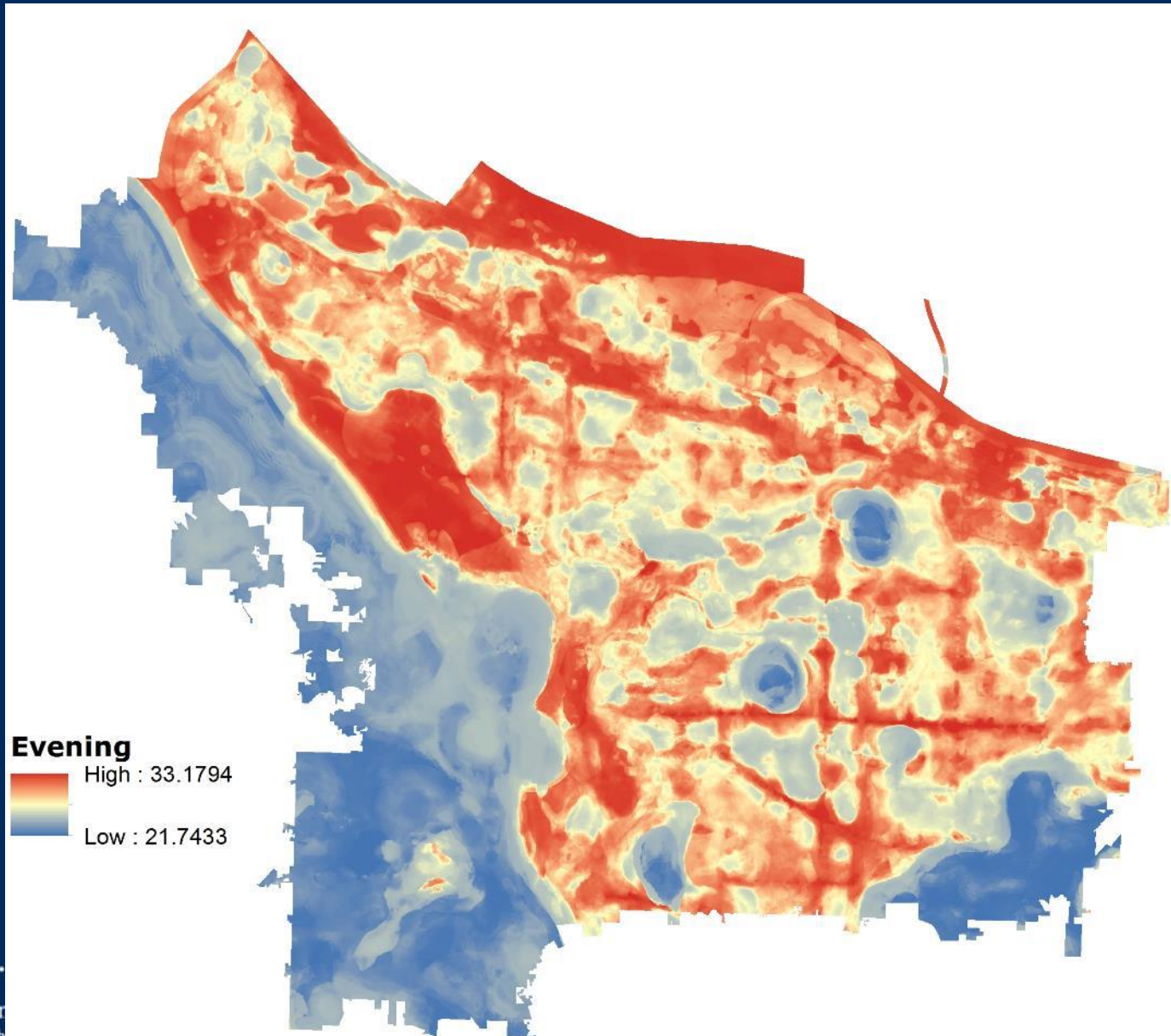
# UHI Portland – Morning (6am)



# UHI Portland –Afternoon (3pm)

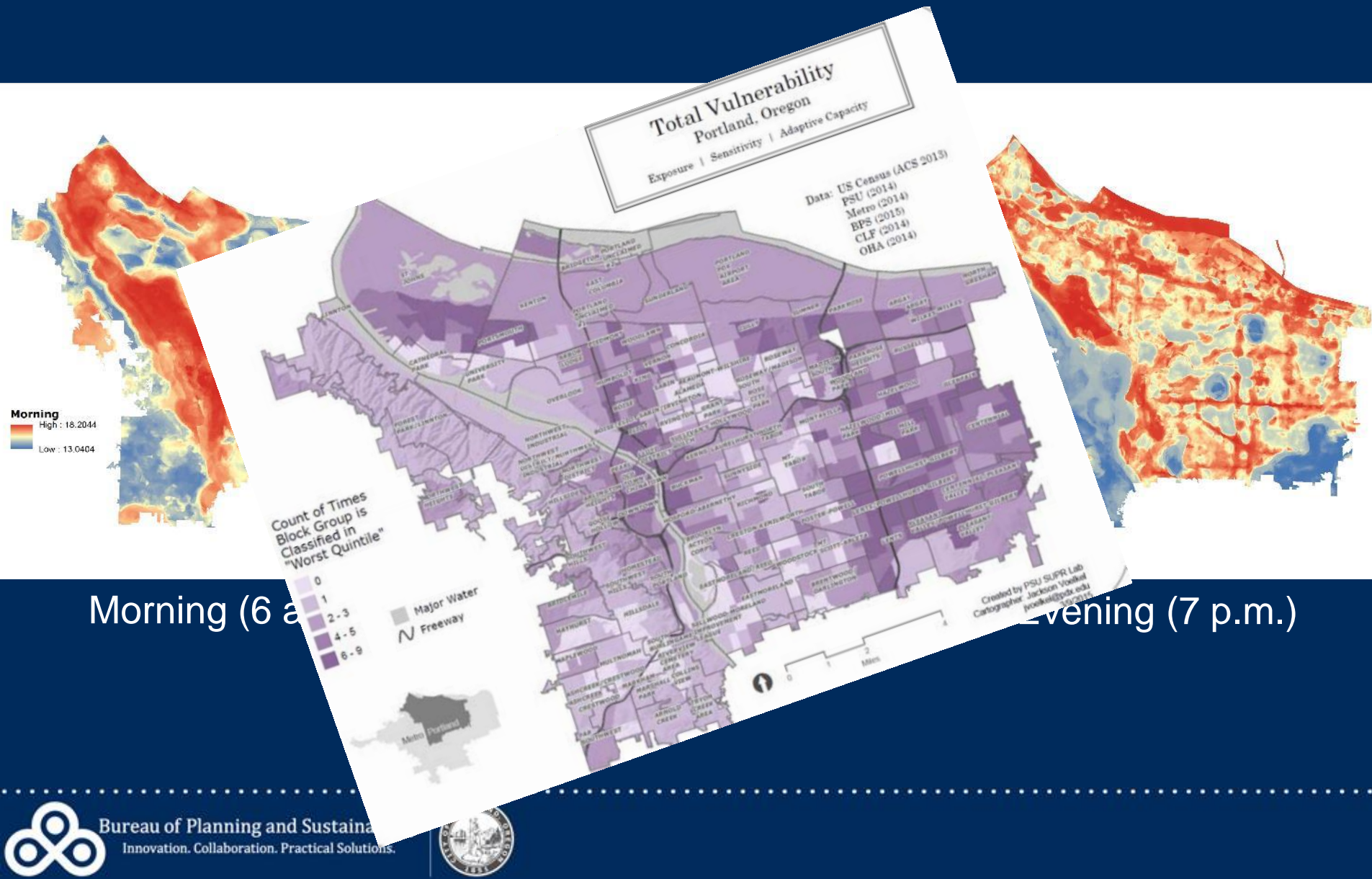


# UHI Portland – Evening (7pm)



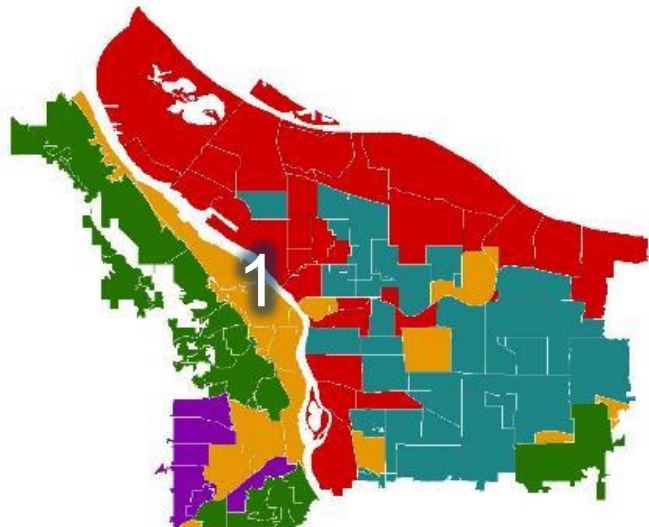
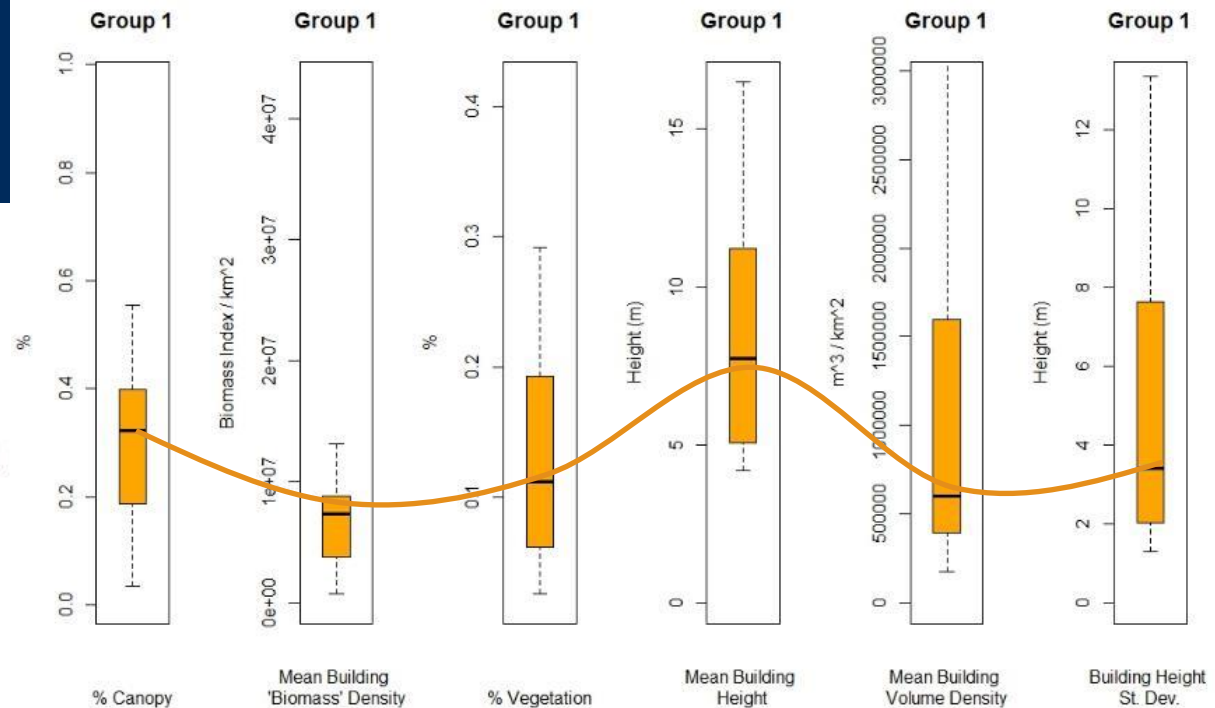
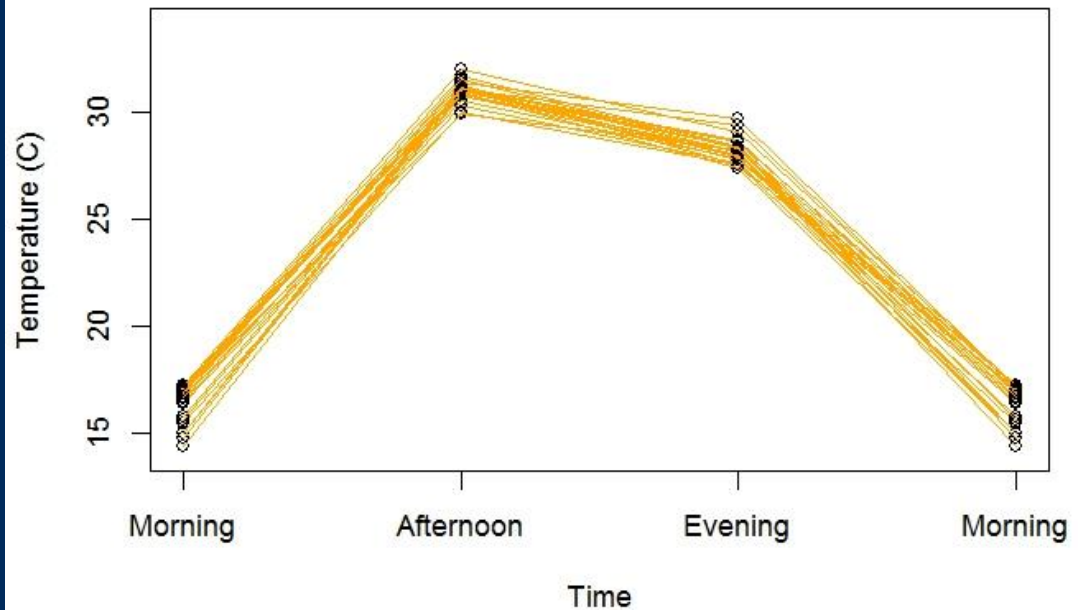


# Gets Hot and Stays Hot?



# Group 1

- Lots of building with high volumes
- Lots of variation in building heights
- Low Canopy 'Biomass', and lots of canopy (smaller trees)







[www.portlandoregon.gov/bps/climate](http://www.portlandoregon.gov/bps/climate)

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